

DHS85XL • DHS115XL • DHS115XEL



PALMER **Wahl**
INSTRUMENTATION GROUP
ISO 9001:2008
USA

DHS85XL Model Features

- The most economical and highest performing Heat Spy in its class
- Used for Close Range: 8:1 (D:S Ratio)
- Maximum temperature: 619°F (326°C)
- Ultra low power consumption in shut-down mode

Note: The DHS85XL replaces discontinued model DHS100X



DHS115XEL
and DHS115XL

DHS115XL Model Features

- Used for Short Range: 12:1 (D:S Ratio)
- Temperature Range to 999°F (535°C)
- Easy Aiming
- Quick Response
- Easy location of hot spots
- Ultra low power consumption in shut-down mode

DHS115XEL Model Extended Features

Same great features as the 115XL, Plus:

- Includes Hi, Low Alarms
- MAX/MIN/AVG / ΔT calculations
- Adjustable Emissivity for better accuracy
- 10 points of memory to record temperature
- Electronic trigger lock which allows readings to be taken continuously

Note: The DHS115XL and DHS115XEL replace discontinued models DHS100XL and DHS100XEL

APPLICATIONS

- Quality/Non-Destructive Testing
- Electrical Troubleshooting
- Manufacturing Process Control
- Diesel/Fleet Maintenance
- Plant/Facilities Maintenance
- HVAC/Refrigeration
- Automotive Repair and Diagnostics



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Easy to read digital display on models DHS135 and DHS215 and DHS235



DHS215XEL shown with optional TC869 - 45° Spring Articulated Surface Probe, rugged Delrin® handle, ANSI mini-connector and 5-foot flexible compensated cable

DHS135XEL • DHS215XEL • DHS235XEL

Model Features

DHS135XEL

- High Temperature 1832°F (1000°C)
- Long Range: 30:1 (D:S Ratio)

DHS215XEL

- High Temperature 1832°F (1000°C)
- Extra Long Range: 50:1 (D:S Ratio)

NEW! DHS235XEL

- Extra High Temperature 2732°F (1500°C)
- Extra Long Range: 50:1 (D:S Ratio)

All Models offer:

- 10 point memory log that can save current temperature
- MAX/MIN/AVG / ΔT
- Electronic Trigger Lock allows continuous readings
- Ultra low power consumption in shut-down mode

DHS215XEL Model Additional Features

- Type K Thermocouple ANSI mini-connector input for probe to determine emissivity
- Heat Spy® Data Logging Software

DHS215XEL Heat Spy® Data Logging Software



DHS215XEL interfaced with a laptop computer via USB cable and Heat Spy® Data Logging software for online data acquisition. Shown with optional tripod

The DHS215XEL can be interfaced with a computer via the supplied USB cable and Heat Spy® Data Logging software. The software provides a convenient way to log temperature readings at user selectable time sampling intervals of 1 second to 999 hours in

High Performance Infrared Thermometer				
Item	Date	Time	Temperature	Unit
1	5/4	17:39:59	75.9	Fahrenheit
2	5/4	17:40:29	94.3	Fahrenheit
3	5/4	17:40:59	94.3	Fahrenheit
4	5/4	17:41:29	102.2	Fahrenheit
5	5/4	17:41:59	90.7	Fahrenheit

1-second increments
Temperature data is generated with a date and 24-hour format time stamp in a text file that can be used by programs such as Excel, Access, and Word for further analysis, graphing and report writing



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Specifications

Model Number	DHS85XL	DHS115XL	DHS115XEL	DHS135XEL	DHS215XEL	DHS235XEL
Description	Close Range	Mid Temperature Range	Mid Temperature Short Range Extended Features	High Temperature Long Range Extended Features	High Temperature Extra Long Range Extended Features USB, Type K Probe	Extra High Temp. Extra Long Range Extended Features
Temperature Range	-4° to 619°F -20° to 326°C	-25° to 999°F -32° to 535°C	-25° to 999°F -32° to 535°C	-58° to 1832°F -50° to 1000°C	-58° to 1832°F -50° to 1000°C	-58° to 2732°F -50° to 1500°C
Distance to Spot Ratio	8:1	12:1		30:1	50:1	
Spectral Range	5 to 14μm	5 to 14μm	5 to 14μm	8 to 14μm	8 to 14μm	8 to 14μm
Emissivity	Fixed at 0.95		Adjustable 0.10 to 1.00	Adjustable 0.10 to 1.00	Adjustable 0.10 to 1.00	Adjustable 0.10 to 1.00
Accuracy	±2% of reading or 2°C whichever is greater	±5°F (±3°C) from -25° to -4°F (-32° to -20°C) ±3°F (±2°C) from -4° to 212°F (-20° to 100°C) ±2% from 212° to 999°F (100° to 535°C)		±5°F (±3°C) from -58° to -4°F (-50° to -20°C) ±3°F (±2°C) from -4° to 212°F (-20° to 100°C) ±2% above 212°F (100°C)		
Repeatability	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)
Resolution	0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)
Response Time	500 ms	500 ms	500 ms	500 ms	500 ms	500 ms
Operating Temperature	32° to 122°F (0 to 50°C) 10 - 90% RH	32° to 122°F (0 to 50°C) 10 - 90% RH	32° to 122°F (0 to 50°C) 10 - 90% RH	32° to 122°F (0 to 50°C) 10 - 90% RH	32° to 122°F (0 to 50°C) 10 - 90% RH	32° to 122°F (0 to 50°C) 10 - 90% RH
Storage Temperature	14° to 140°F (-10° to 60°C)	14° to 140°F (-10° to 60°C)	14° to 140°F (-10° to 60°C)	14° to 140°F (-10° to 60°C)	14° to 140°F (-10° to 60°C)	14° to 140°F (-10° to 60°C)
LCD Backlight	Yes	Yes	Yes	Yes	Yes	Yes
Dual Display		NA		Yes	Yes	Yes
°F & °C Selectable	Yes	Yes	Yes	Yes	Yes	Yes
Laser Sight Switchable						
					User Selectable, Class II Laser, less than 1mW	
Auto Power Off	Automatically after approx. 6 seconds	Automatically after approx. 6 seconds	Automatically after approx. 6 seconds	Automatically after approx. 6 seconds	Automatically after approx. 30 seconds	Automatically after approx. 6 seconds
Max/Min/Avg ΔT	No	No	Yes	Yes	Yes	Yes
Auto Measuring	No	No	Yes	Yes	Yes	Yes
Audible Alarm	No	Yes	Yes	Yes	Yes	Yes
10 Point Memory	No	No	Yes	Yes	Yes	Yes
Electronic Trigger Lock	No	Yes	Yes	Yes	Yes	Yes
Tripod Mount	Yes	No	No	Yes	Yes	Yes
USB Data Output	No	No	No	No	Yes	No
Type K Thermocouple	No	No	No	No	Yes	No
Operating Software		NA			Software Cd Included	NA
Power Supply	9V Battery	9V Battery	9V Battery	9V Battery	9V Battery	9V Battery
Battery Life with Laser Off	16 hrs for continuous operation	15 hrs for continuous operation			15 hrs for continuous operation	
Dimensions	5.9 x 5.2 x 1.8" (150 x 133 x 45mm)	6.8 x 3.6 x 1.8" (173 x 93 x 45mm)		7.9 x 5.0 x 1.9" (200 x 127 x 47mm)	6.7 x 5.2 x 1.8" (200 x 132 x 45mm)	
Weight with Battery	4.7 oz (135g)	7.8 oz (220g)		12.7 oz (360g)	11.6 oz (330g)	
Included Accessories	User Manual, 9V Battery	User Manual, 9V Battery, Soft Pouch	User Manual, 9V Battery, Carrying Case, and Wrist Strap	User Manual, 9V Battery, Carrying Case, Wrist Strap & Software	User Manual, 9V Battery, Carrying Case, and Wrist Strap	
Optional Accessories	Soft Pouch	No	No	Optional T/C Probes**	No	

* Wire Bead thermocouple - 1 meter in length, ** For more information on optional probes visit www.palmerwahl.com

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